

Factoring Quadratic Expressions (I)

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 - 19x - 28$

11. $-3x^2 - 8x - 5$

2. $-36x^2 + 12x - 1$

12. $56x^2 + 73x + 21$

3. $18x^2 + 31x + 6$

13. $-48x^2 - 98x - 49$

4. $9x^2 + 59x - 28$

14. $45x^2 - 92x + 32$

5. $-81x^2 - 90x - 16$

15. $32x^2 - 100x + 63$

6. $42x^2 - 19x - 35$

16. $40x^2 + 81x + 35$

7. $16x^2 + 42x + 27$

17. $-15x^2 - 17x + 4$

8. $-18x^2 + 73x - 35$

18. $12x^2 + 13x + 3$

9. $9x^2 - 26x - 3$

19. $40x^2 - 87x + 27$

10. $5x^2 - 44x + 63$

20. $40x^2 + 3x - 54$

Factoring Quadratic Expressions (I) Answers

Name: _____

Date: _____

Factor each expression.

1. $-3x^2 - 19x - 28$

$-(x + 4)(3x + 7)$

2. $-36x^2 + 12x - 1$

$-(6x - 1)(6x - 1) = -(6x - 1)^2$

3. $18x^2 + 31x + 6$

$(9x + 2)(2x + 3)$

4. $9x^2 + 59x - 28$

$(x + 7)(9x - 4)$

5. $-81x^2 - 90x - 16$

$-(9x + 8)(9x + 2)$

6. $42x^2 - 19x - 35$

$(6x - 7)(7x + 5)$

7. $16x^2 + 42x + 27$

$(2x + 3)(8x + 9)$

8. $-18x^2 + 73x - 35$

$-(2x - 7)(9x - 5)$

9. $9x^2 - 26x - 3$

$(x - 3)(9x + 1)$

10. $5x^2 - 44x + 63$

$(5x - 9)(x - 7)$

11. $-3x^2 - 8x - 5$

$-(x + 1)(3x + 5)$

12. $56x^2 + 73x + 21$

$(8x + 7)(7x + 3)$

13. $-48x^2 - 98x - 49$

$-(6x + 7)(8x + 7)$

14. $45x^2 - 92x + 32$

$(5x - 8)(9x - 4)$

15. $32x^2 - 100x + 63$

$(8x - 7)(4x - 9)$

16. $40x^2 + 81x + 35$

$(8x + 5)(5x + 7)$

17. $-15x^2 - 17x + 4$

$-(5x - 1)(3x + 4)$

18. $12x^2 + 13x + 3$

$(3x + 1)(4x + 3)$

19. $40x^2 - 87x + 27$

$(8x - 3)(5x - 9)$

20. $40x^2 + 3x - 54$

$(8x - 9)(5x + 6)$